Reliability Centered Maintenance

Fundamentals of RCM Analysis

COURSE OVERVIEW

Administrative Notes:

Introduction

Course Length:	3 Days
Class Hours:	0800 - 1600
Lunch	1130 - 1230
Student Roster:	Full Name/Co./Dept.
Critique Sheet:	Please Use It!
Student Guide:	Yours To Keep
Computers:	Use When Directed
Msg/Phone:	TBA

COURSE OVERVIEW

Course Description:

Introduction

TARGET AUDIENCE

Anyone interested in performing RCM analysis or responsible for implementing an RCM program, including personnel responsible for the maintenance and operation of equipment. This course is also applicable to engineers, logisticians, and maintenance planners/managers involved in maintenance programs.

COURSE OVERVIEW

Course Objective:

Introduction

To provide you with an introduction to the philosophy, theory, and practical experience needed to implement and perform RCM analysis.

COURSE OVERVIEW

Course Expectation:

Introduction

Upon completion of this course you will:

- **Be able to understand the concepts and processes required to perform RCM analysis**
- **Be able to participate in an RCM analysis**

Additional assistance, training, and experience will likely be necessary to independently implement and execute an RCM effort

COURSE OVERVIEW

Course Agenda:

Introduction

UNIT I - INTRODUCTION

- Module 1 - RCM Introduction
- Module 2 - RCM in the NAVAIR Organization
- Module 3 - Terminology/Concepts

UNIT II - RCM PROCESS

- Module 1 - RCM Process Overview
- Module 2 - Planning and Preparation
- Module 3 - Hardware Partitioning
- Module 4 – FMECA
- Module 5 - RCM Decision Logic

COURSE OVERVIEW

Course Agenda:

Introduction

UNIT III - HOW TO PERFORM RCM

- **Module 1 - RCM Software Review**
  - »**Software Demonstration**
  - »**Work Shop (Part 1/2)**
- **Module 2 - Service/Lubrication Task**
- **Module 3 - On Condition Task**
- **Module 4 - Hard Time Task**
- **Module 5 - Failure Finding Task**
- **Module 6 - Age Exploration**
- **Module 7 - Selecting Task or Other Options**
- **Module 8 - Analytical Methods**
  - »**Work Shop (Part 3)**
  - »**Work Shop (Part 4)**

COURSE OVERVIEW

Course Agenda:

Introduction

UNIT IV – ADDITIONAL TOPICS

- **Module 1 - Task Packaging**
- **Module 2 - Sustaining the Analysis**
- **Module 3 - Data Considerations**

Course Review

Case Studies

Class Project

COURSE OVERVIEW

Student Introduction:

Introduction

Class Introduction

- Name
- Current job responsibilities
- Type of equipment working with
- Prior RCM Experience (if any)